

WHAT IS CLAIMED IS:

1. A plasmid capable of expressing a heterologous protein in a plant that
5 encodes bovine lysozyme.
2. The plasmid of claim 1 comprising SEQ ID NO:1.
3. The plasmid of claim 1 or 2 having the sequence SEQ ID NO:3.
10
4. The plasmid of claim 3 identified as ATCC Dep. No. PTA-2599.
5. A recombinant RNA plant virus comprising a nucleotide sequence
encoding bovine lysozyme.
15
6. The plant virus of claim 5 comprising SEQ ID NO:1.
7. An RNA molecule comprising:
20 (a) a first viral subgenomic promoter;
(b) a second viral subgenomic promoter; and
(c) a bovine lysozyme coding sequence under control of either the
first or the second subgenomic promoter.
8. The RNA molecule of claim 7 wherein the coding sequence is SEQ ID
25 NO:1.
9. A recombinant tobamovirus comprising a nucleotide sequence encoding
bovine lysozyme.
- 30 10. The tobamovirus of claim 9 wherein the lysozyme coding sequence is
SEQ ID NO:1.

11. A method of producing bovine lysozyme, comprising:
- (a) infecting a host plant with an RNA plant virus comprising a nucleotide sequence encoding bovine lysozyme;
 - (b) allowing the virus to infect the plant systemically;
 - (c) harvesting plant material; and
 - (d) isolating from said harvested plant material bovine lysozyme,
- thereby producing said bovine lysozyme.
- 5